CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

11th April 2017

Dear Sir,

Sub: Testing of Granular Sub Base & Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Granular Sub Base & Wet Mix Macadam supplied by you, for the work of **'Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE1/9

CIVIL TECH LABS

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TEST REPORT

GRADATION TEST ON GRANULAR SUB BASE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	05/04/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-1 for GSB Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
26.5	70-100	**98.4**	
9.5	50-80	**72.4**	
4.75	40-65	**52.6**	
2.36	30-50	**42.8**	
0.425	15-25	**18.4**	
0.075	3-10	**7.6**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

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Quality Manager

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TEST REPORT

GRADATION TEST ON GRANULAR SUB BASE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	05/04/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-1 for GSB Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
26.5	70-100	**97.5**	
9.5	50-80	**73.4**	
4.75	40-65	**53.2**	
2.36	30-50	**43.2**	
0.425	15-25	**17.4**	
0.075	3-10	**8.4**	

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TEST REPORT

GRADATION TEST ON GRANULAR SUB BASE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	05/04/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-3		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-1 for GSB Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
26.5	70-100	**98.4**	
9.5	50-80	**74.2**	
4.75	40-65	**52.6**	
2.36	30-50	**44.2**	
0.425	15-25	**18.4**	
0.075	3-10	**7.6**	

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TEST REPORT

GRADATION TEST ON GRANULAR SUB BASE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	05/04/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-4		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-1 for GSB Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
26.5	70-100	**98.6**	
9.5	50-80	**73.4**	
4.75	40-65	**53.2**	
2.36	30-50	**45.8**	
0.425	15-25	**17.6**	
0.075	3-10	**8.6**	

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TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Wet Mix Macadam

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Agency of the Name	M/s. Technical Manager (West), KRIDL
Date of Testing	10/04/2017
Reference	**MORTH Table 400-10**

Sample No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	21.3	21.9	Satisfactory (As per MORTH for WMM, Maximum allowed AIV is 30 %)
2	22.5		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.4	25.9	Satisfactory (As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	13.5		

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TEST REPORT
GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	10/04/2017
Technical Reference	MORTH Table 400-11

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfy the Requirements**
45	95-100	**98.3**	
22.4	60-80	**73.4**	
11.2	40-60	**52.6**	
4.75	25-40	**33.8**	
2.36	15-30	**25.6**	
0.6	8-22	**17.8**	
0.075	0-8	**6.9**	

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TEST REPORT
GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Asphalting and Improvements to roads at Venkatala village in ward no. 01 of Yelahanka Sub Division.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	10/04/2017
Technical Reference	MORTH Table 400-11

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfy the Requirements**
45	95-100	**97.5**	
22.4	60-80	**74.2**	
11.2	40-60	**53.6**	
4.75	25-40	**34.8**	
2.36	15-30	**26.8**	
0.6	8-22	**18.4**	
0.075	0-8	**7.1**	

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